


Genotyping Report

Strain ID	T010207	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Cd3e</i>		

1. Strategy of Genotyping



▶ **Loxp** **→** **Primer** ① ② **PCR Reaction Number** **—** **Sequencing Region**

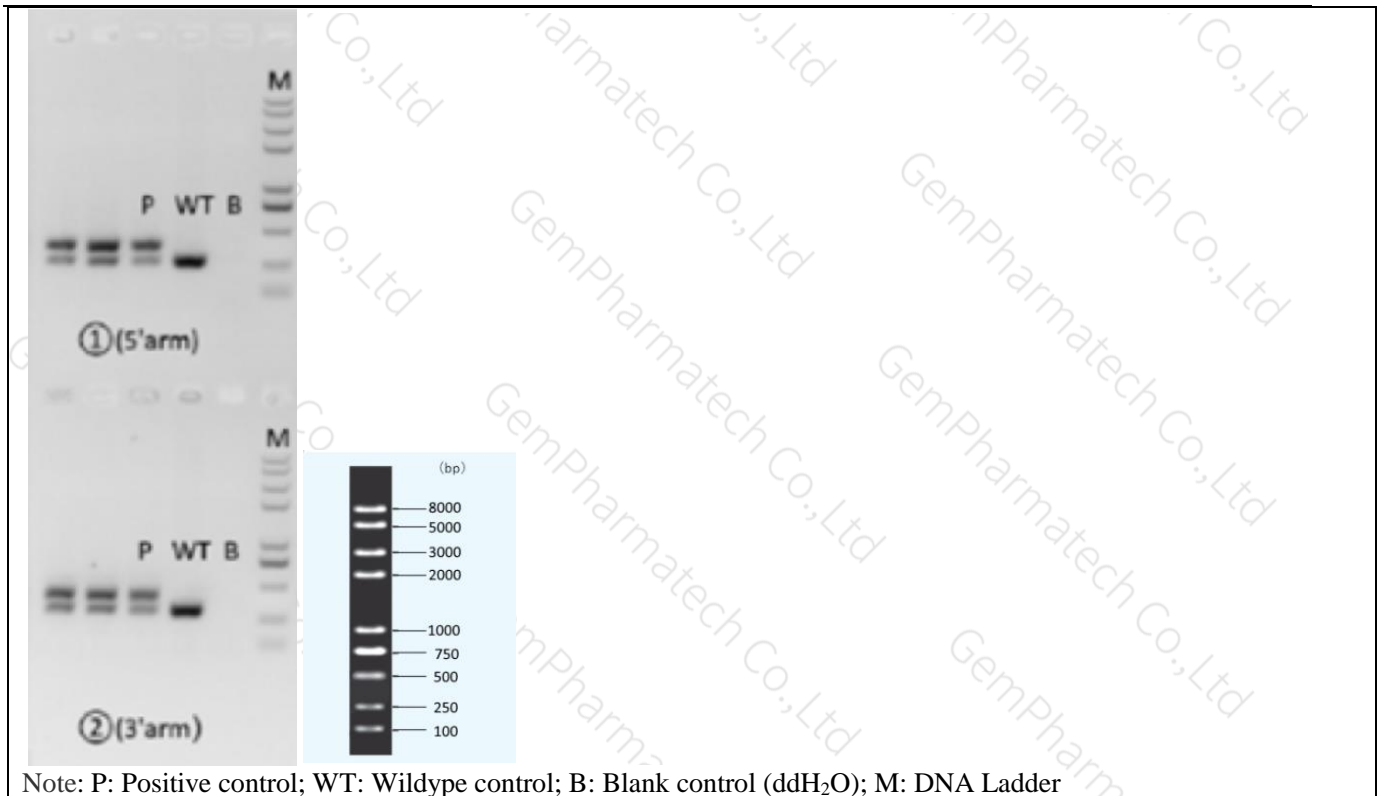
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.
 Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T010207-F1	AAAGATAAAGACGGAGGAGGGAGG	WT:269bp Targeted:374bp
	T010207-R1	TTTCTGCTTGAGACAGAGGTGGG	
②(3'arm)	T010207-F2	TTTGGCTCCCACAATCATGTAGAG	WT:311bp Targeted:412bp
	T010207-R2	GCAGTAACTCTTCAACTGCCAAACC	

3. Gel Image & Conclusion

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4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH ₂ O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95°C	5min	20×
2	98°C	30s	
3	65°C (-0.5°C/cycle)	30s	
4	72°C	45s	
5	98°C	30s	20×
6	55°C	30s	
7	72°C	45s	
8	72°C	5min	



9	10°C	hold
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Reviewer:Ting Sun

Date:2021-7-13